

ABSTRACT OF THE DISCLOSURE

A compliant contact pin assembly, a contactor card, a testing system and methods for making and testing are provided. A compliant contact pin assembly includes a contact pin formed from a portion of a substrate with the contact pin compliantly held suspended within the substrate by a compliant coupling structure. The suspension within the substrate results in a compliant deflection orthogonal to the plane of the substrate. The contact pin assembly is formed by generally thinning the substrate around the contact pin location and then specifically thinning the substrate immediately around the contact pin location for form a void. The contact pin is compliantly coupled, in one embodiment by compliant coupling material and in another embodiment by compliantly flexible portions of the substrate.

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